

After hours of testing I share my workaround here. I use the TV28T v2 RTL USB DVB-T Dongle SDR Receiver with **RTL2832U & R820T** Tuner and MCX Input.

I wanted to share my data on <http://www.live-mobile-mode-s.eu/index.php> as I am a frequently user:

Serial	Callsign	Type	Operator	GMT	Location
186511	OTIS61	KC-130J	USMC VMGR-252 [KNKT]	21:21	Valencia, Spain
---	---	---	---	21:18	EDDM-2.DE
TU-VAF	---	Gulfstream III	Government of Ivory Coast	20:02	Valencia, Spain
CH-12	BAF644	C-130H	20SM	20:02	Cluj, RO
ZZ330	RRR2313	Voyager KC2	RAF 10/101Sqn	18:20	Cluj, RO
ZZ334	---	Voyager KC3	RAF 10/101Sqn	13:19	Murten, CH
ZZ334	---	Voyager KC3	RAF 10/101Sqn	13:18	Reichenkirchen, Germany
186715	LOBO715	UC-35D	USMC VMR-1 [KNKT]	13:18	Decimomannu, IT
09-9208	RCH150	C-17A	USAF 437AW [KCHS]	13:18	12nm W of EDTY, DE
N258	---	NH-90	---	13:18	ENSCHEDENL
258	---	Lear 45	101SQ	13:17	Murten, CH
09-9208	RCH150	C-17A	USAF 437AW [KCHS]	13:16	Saarbruecken, EDDR, DE
ZH885	---	Hercules C4	RAF BNTW	13:16	Lambath Upon Hull, UK
07-3899	---	T-8A	---	13:15	Dallas, TX
ZH885	---	Hercules C4	RAF BNTW	13:14	Birmingham (BHX), GB
ZZ334	RRR2712	Voyager KC3	RAF 10/101Sqn	13:14	Saarbruecken, EDDR, DE
09-9208	RCH150	C-17A	USAF 437AW [KCHS]	13:14	Ramstein, DE
ZH885	---	Hercules C4	RAF BNTW	13:13	Northwich Cheshire, UK
---	JAI0038	---	---	13:13	Jena, DE
ZZ334	RRR2712	Voyager KC3	RAF 10/101Sqn	13:13	Filderstadt, DE

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I wanted also - at the same time - to get a graphic view on my own PC with **Virtual Radar Server** (2.0.2). I like this software, it's very good:

The screenshot shows the Virtual Radar Server interface. On the left is a map of Germany with several aircraft icons. On the right is a detailed information panel for a specific aircraft:

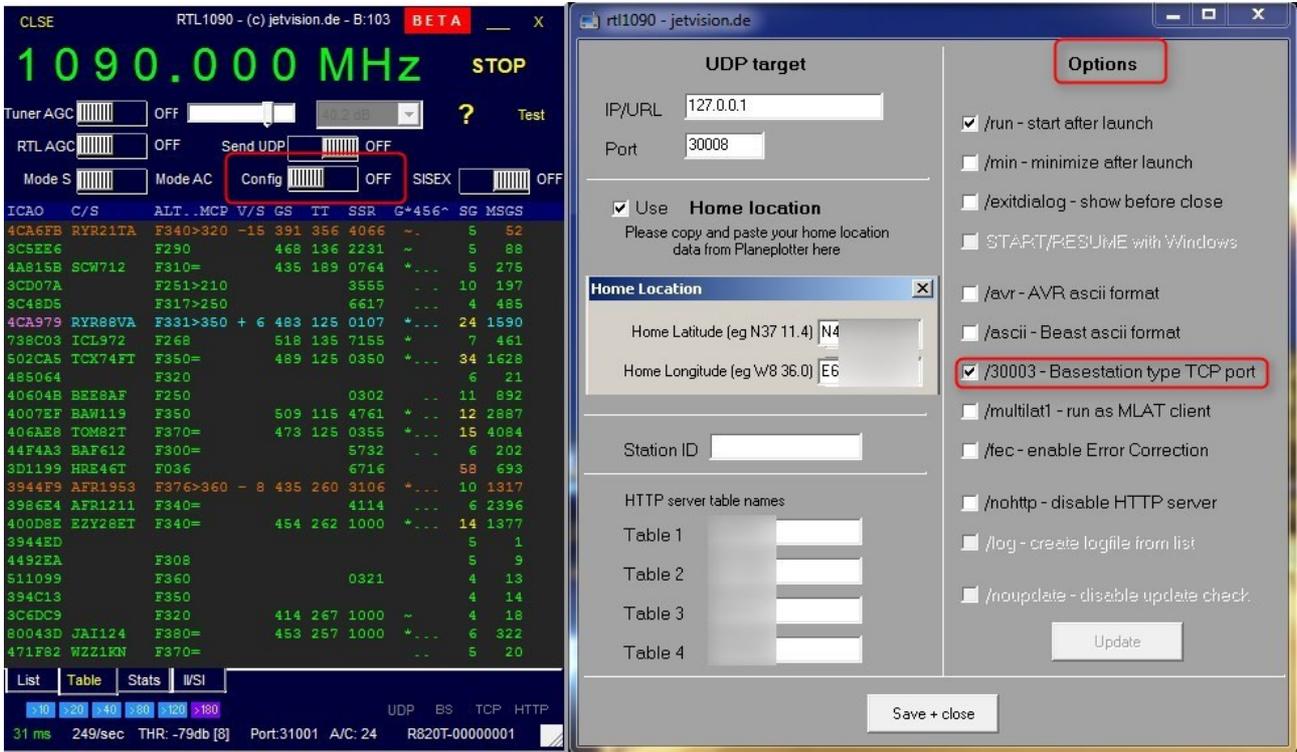
- 09-9208** **AE49C4** **CHARLESTON 437AW 3ISAW**
- United States Air Force**
- United States**
- Boeing C17A Globemaster III**
- Altitude:** 3962 m
- Vertical Speed:** ---
- Speed:** ---
- Heading:** ---
- Distance:** ---
- Squawk:** 0120
- Engines:** Four jet
- Species:** Landplane
- Wake Turbulence:** Heavy
- Route:** Aircraft is not transmitting its callsign

Below the information panel is a table showing a list of tracked aircraft:

Silhouette	Flag	Reg.	ICAO	Callsign	Route	Altitude	Speed
		09-9208	AE49C4	RCH150		3962 m	
		EI-DHX	4CAZAB			5204 m	631.5 km/h
		LX-LGF	4D00C9			5806 m	
		EI-RJE	4CA52B	AFR1509		7315 m	668.0 km/h
		YU-BZZ	4C0739			8077 m	
			3C6758	DLH19H	LEMD-EDDF	9746 m	774.1 km/h
		EI-EGB	4CA7B7	RYR10XC	LEPA-EDLV	10058 m	729.7 km/h
		TC-TLC	4BD183			10058 m	840.8 km/h
		A6-ECP	896117	UAE184		10668 m	933.4 km/h
		G-EUUP	400A25			10965 m	807.5 km/h
		D-AIBB	3C6442	DLH77P		11270 m	844.5 km/h
		EC-JTQ	342397	VLG1264	ESSA-LEBL	11270 m	889.0 km/h
		G-EZAM	400AF7	EZY74GK	EGSS-LJLJ	11278 m	885.3 km/h
			3C09F2			11529 m	890.8 km/h
			4068B7	MON1377	LIPZ-EGCC	11575 m	770.4 km/h
		TC-ARB	4B8642			12497 m	

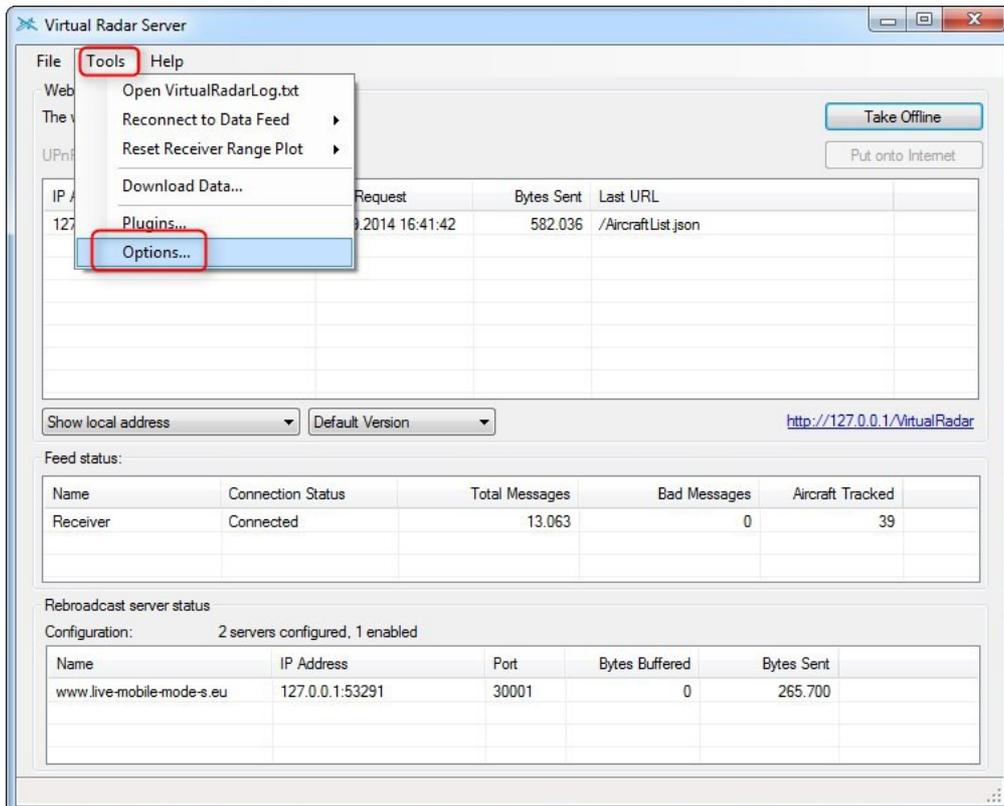
How to connect RTL1090 Beta2 B.103 with Virtual Radar and then with ModeS Logger 4.1a:

RTL 1090: Hit „Open“ in the top left corner – then Config:
Set in „Options“: check: „/30003 Basestation type TCP port“:

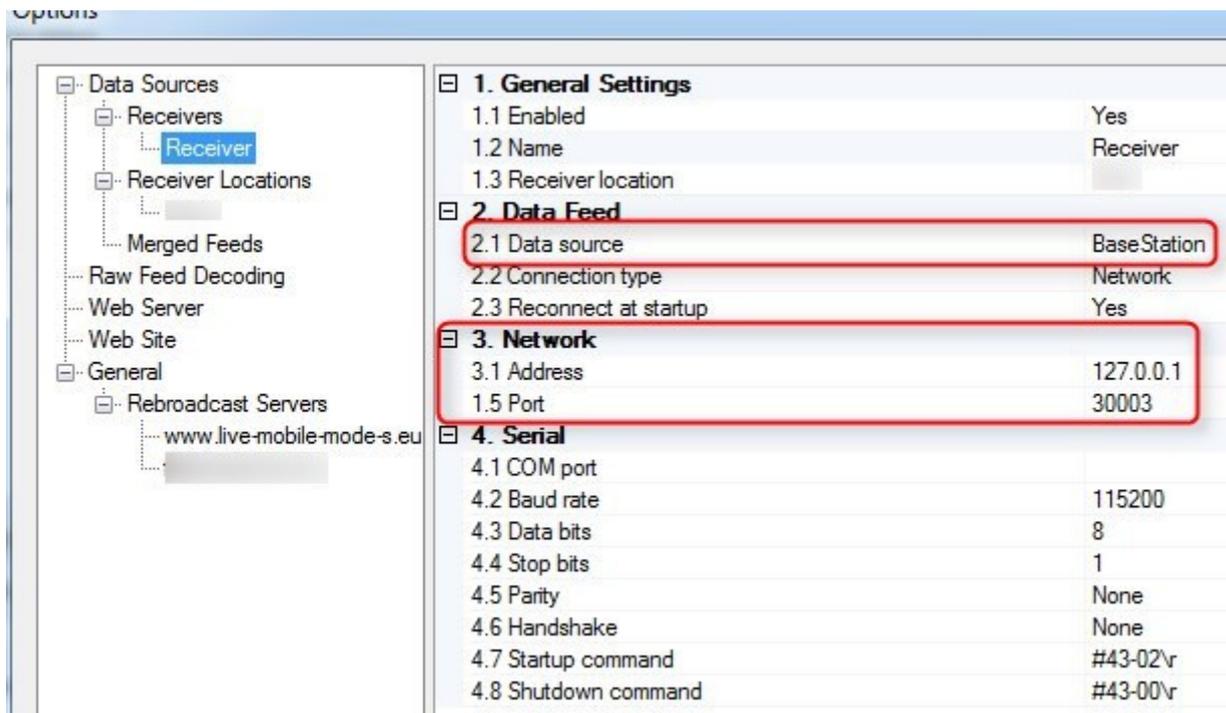


Then RTL sends data via **port 30003** and also in the correct **basestation format**.

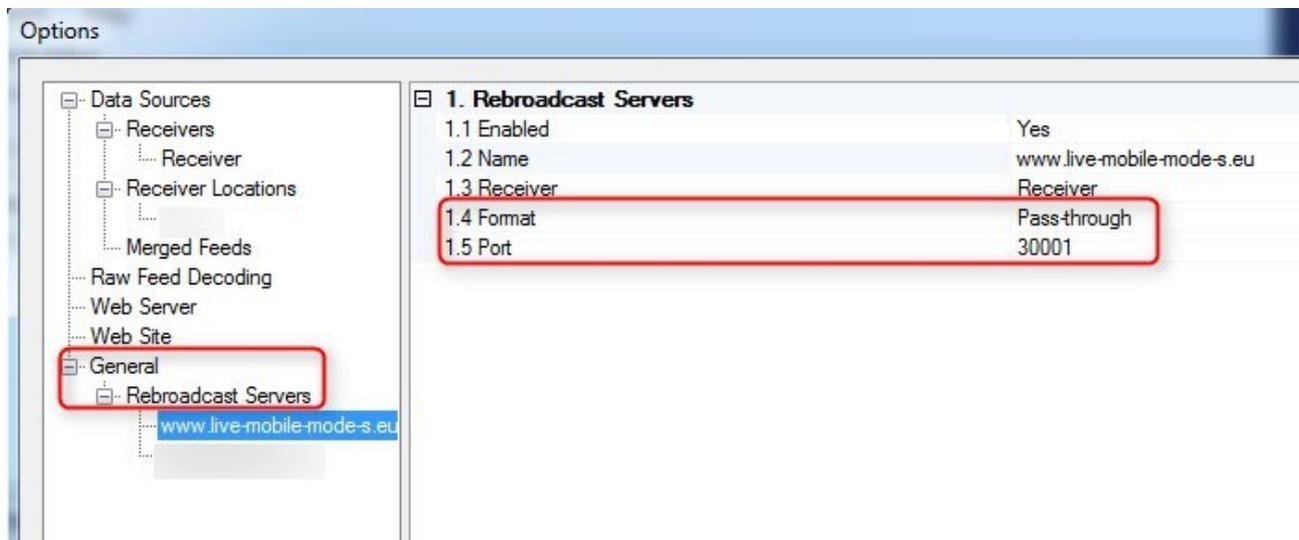
In Virtual Radar Server you hit „Tools“ „Options“:



Here you have to tell Virtual Radar Server to **pick the RTL 1090 data from port 30003** and **format „Basestation“**:

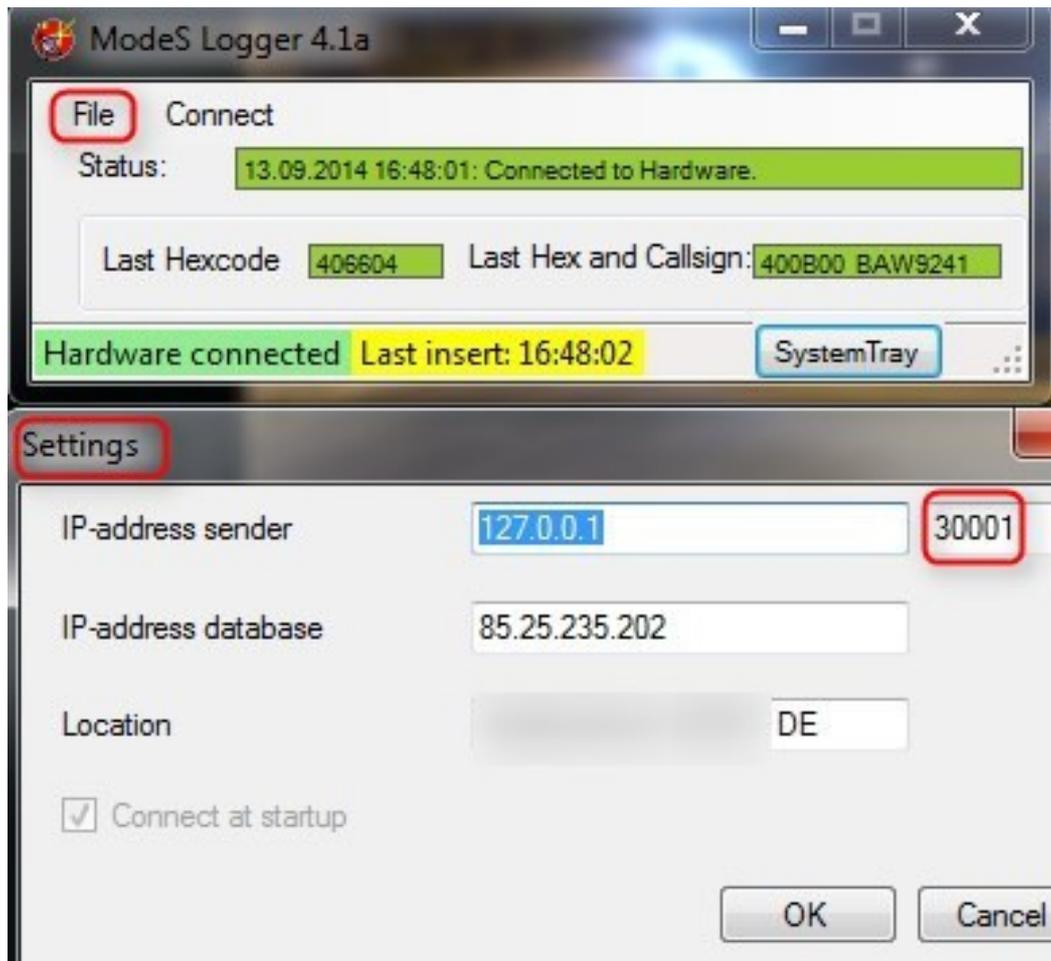


Then you use „General“ - „Rebroadcast Server“ and create a new one with the following settings:



Format „**Pass-through**“ sends the data to **port 30001** or any other port you like without changes in the stream itself. You can only use one port per application. So Re-Broadcasting will allow you to add as many other applications as you like.

Now start **ModeS Logger**, hit File, Settings and **change the port** to the Re-Broadcasted one from Virtual Radar Server. In my case it is **30001**.



As you see on page one in this PDF, these are the only settings that work in this configuration.

Links:

Interesting video about the RTL dongle: <http://youtu.be/HS38q3YXsY4>

This is my (DIY-) antenna: <http://youtu.be/zMoKs1eiyO4>